

DERWENT-ACC-NO: 1996-217856

DERWENT-WEEK: 199622

COPYRIGHT 1999 DERWENT INFORMATION LTD

TITLE: Horizontal mortar stake construction
industrial method
employing casing
to that of auger
out earth and sand
e.g. for digging tunnels - involves
which rotates in opposite direction
while breaking and expelling dugged
out of hole

PATENT-ASSIGNEE: KAJIMA CORP [KAJI]

PRIORITY-DATA: 1994JP-0213530 (September 7, 1994)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	MAIN-IPC	
LANGUAGE				N/A
JP 08082186 A	004	March 26, 1996	E21D 009/04	

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-DESCRIPTOR	APPL-NO
APPL-DATE			
JP 08082186A		N/A	
1994JP-0213530		September 7, 1994	

INT-CL (IPC): E02D003/12, E21D009/04

ABSTRACTED-PUB-NO: JP 08082186A

BASIC-ABSTRACT:

The method employs an auger (3) which is provided with a casing (2). A double tube (6) is provided in the axis of the auger, for injecting the quick hardening mortar material. The auger and the casing rotate in the opposite direction so as to advance in the digging direction. The

casing expels the major part of the dugged out earth and sand and the left out portion remains in the casing.

When the hole is dug upto the predetermined depth, the auger and the casing is withdrawn by rotating the auger and the casing in the same direction. The auger while retreating, rotates the mortar through the double tube inside the dug out hole. The casing rotates in the opposite direction to that of auger, while expelling dugged out earth and sand out of hole.

ADVANTAGE - Reduces construction cost. Provides good, accurate, horizontal mortar stakes. Provides handy operation. Prevents mortar leakage.

CHOSEN-DRAWING: Dwg. 1/1

TITLE-TERMS: HORIZONTAL MORTAR STAKE CONSTRUCTION
INDUSTRIAL METHOD DIG TUNNEL
EMPLOY CASING ROTATING OPPOSED DIRECTION AUGER
BREAK EXPEL EARTH
SAND HOLE

DERWENT-CLASS: Q42 Q49

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1996-182824

